

Cryptique ou non?

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Homme de 20 ans : dyspnée, toux sèche, douleur thoracique, masse médiastinale

Hémoglobine	15.6	g/dL
VGM	83.8	fL
TGMHb	29.4	pg
Hématocrite	44.5	%
Hématies	5.31	T/L
CGMHb	35.1	g/dL
Indice de distribution	13.4	%

Technique: Automate Sysmex XN

Plaquettes	178	G/L
VMP	10.3	fL

Technique: Automate Sysmex XN

Leucocytes	9.98	G/L
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Polynucléaires neutrophiles	57.3	%
	5.7	G/L

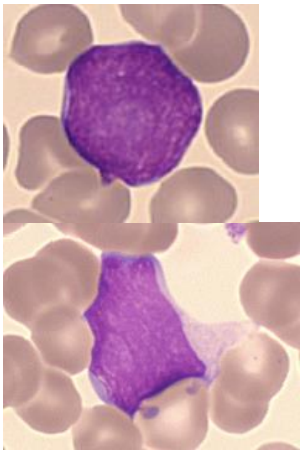
Polynucléaires éosinophiles	2.2	%
	0.2	G/L

Polynucléaires basophiles	0.0	%
	0.0	G/L

Lymphocytes	14.8	%
	1.5	G/L

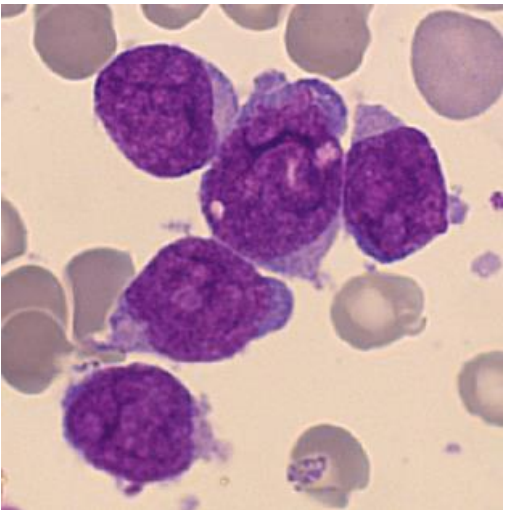
Monocytes	3.7	%
	0.4	G/L

Blastes	22	%
	2.2	G/L



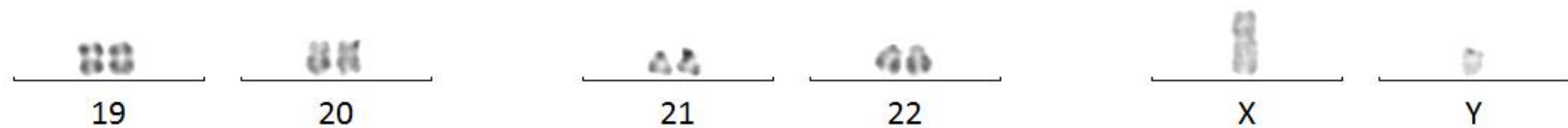
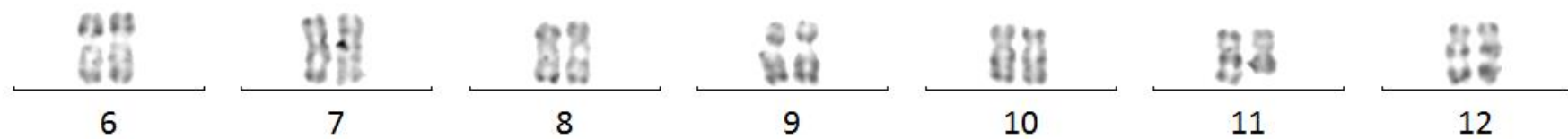
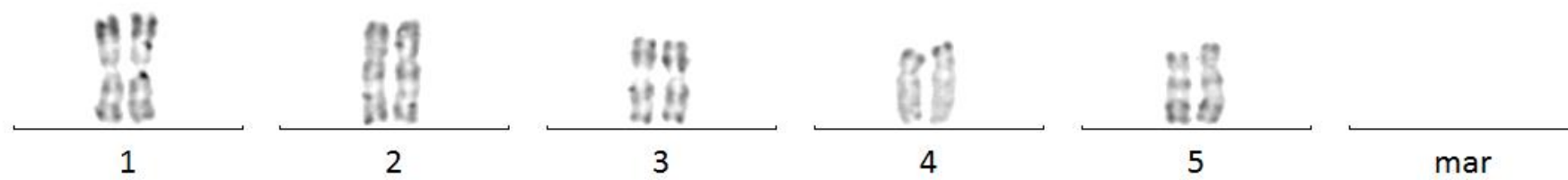
Nature du prélèvement

Sang EDTA

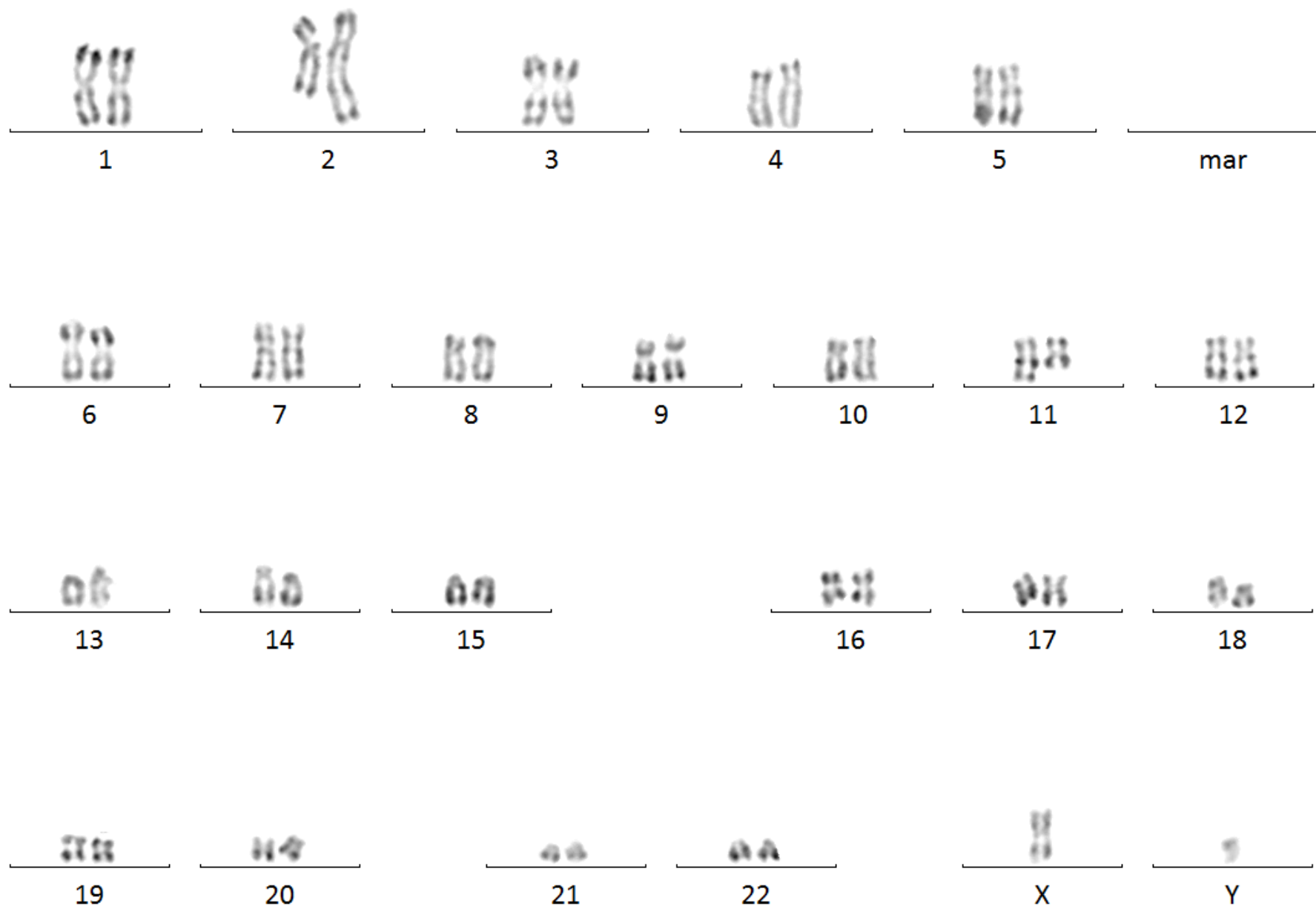


Marqueurs de membranes							
Lignée B (%)		Lignée T (%)		Myéloïde (%)		Autres (%)	
CD19	: 0	CD1a	: 10	CD13	: 51	CD34	: 95
CD20	: #nf	CD2	: 3	CD33	: 19	HLA-DR	: #nf
CD22	: #nf	CD3	: 0.4	CD117	: 53	CD56	: 2
CD10	: 32	CD4	: 18	CD34+13+	: 48		
CD19+CD10+	: #nf	CD8	: 2	CD34+117+	: 46		
		CD5	: 85				
		CD7	: 99				
		CD3+TCRαβ+	: 3				
		CD3+TCRγδ+	: 2				
Marqueurs cytoplasmiques							
Lignée B (%)		Lignée T (%)		Myéloïde (%)		Autres (%)	
IgMc	: 0	CD3c	: 98	MPOc	: 0		
CD22c	: #er						
CD79a	: 0						

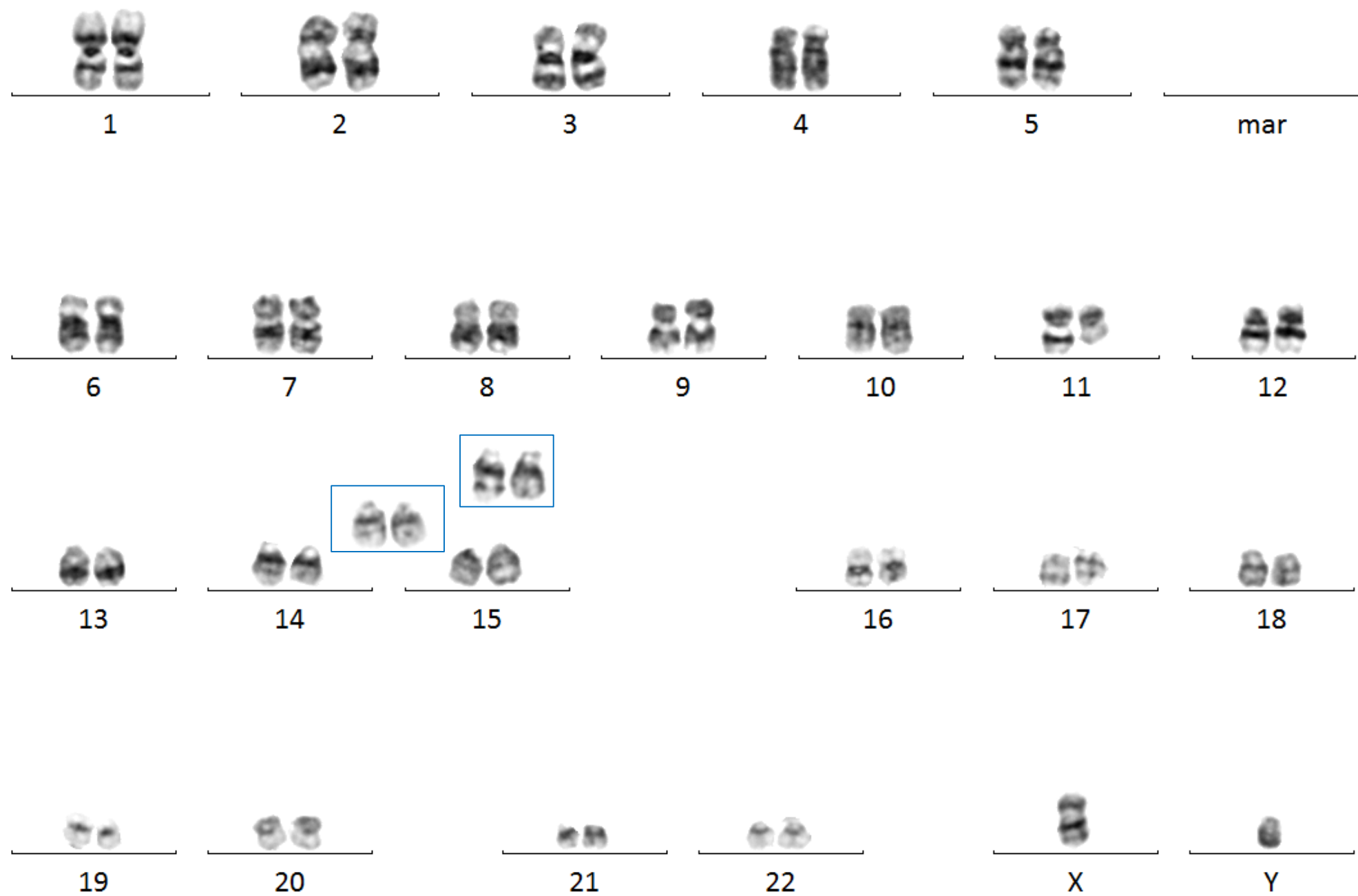
CONCLUSION: Prolifération lymphoblastique T de type LAL near-ETP (OMS 2016).



11/20 mitoses



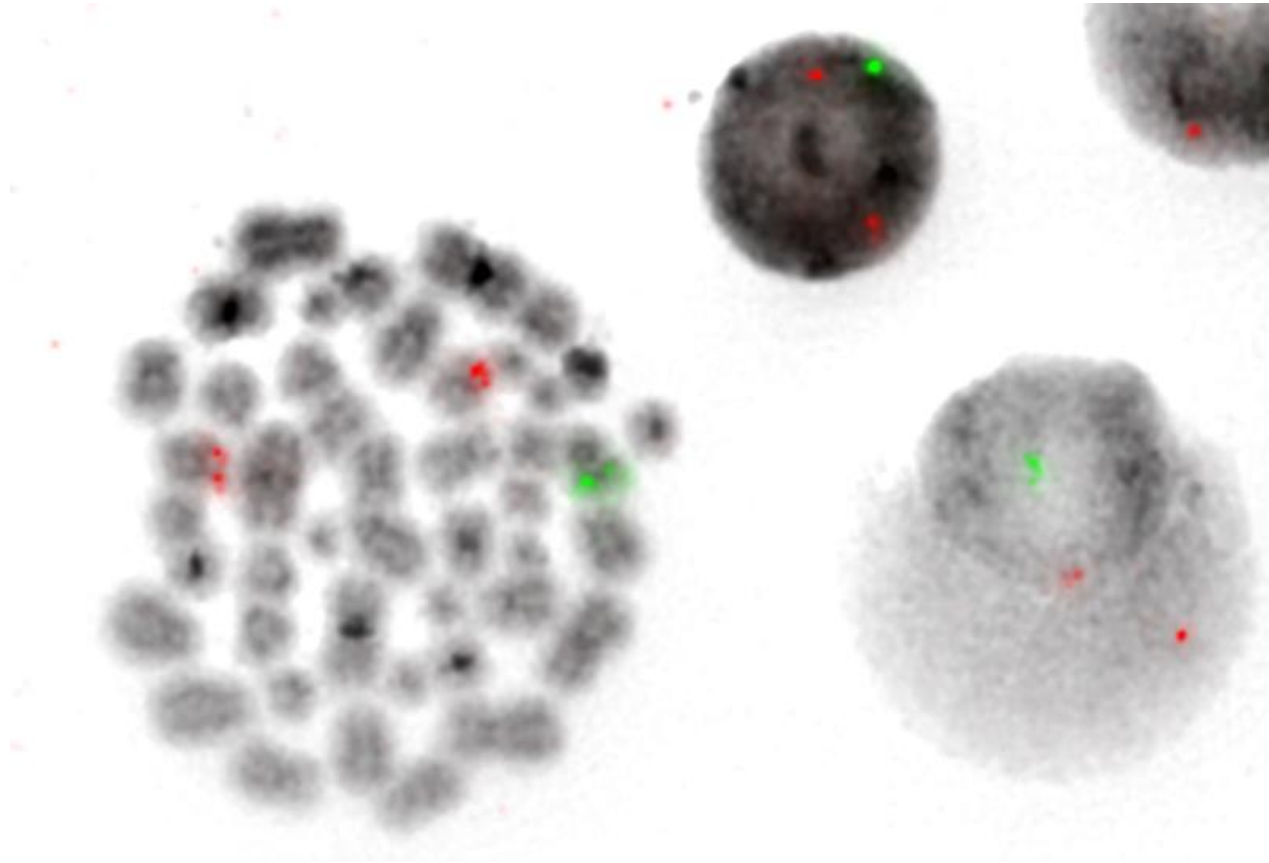
3/20 mitoses



FISH **PICALM**-**MLLT10** maison

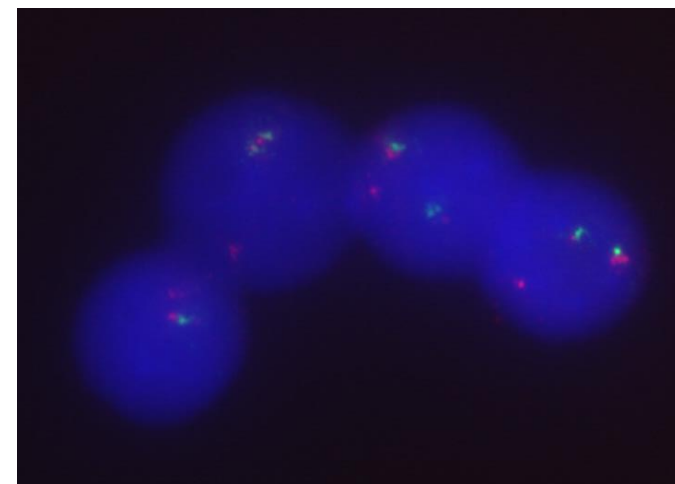
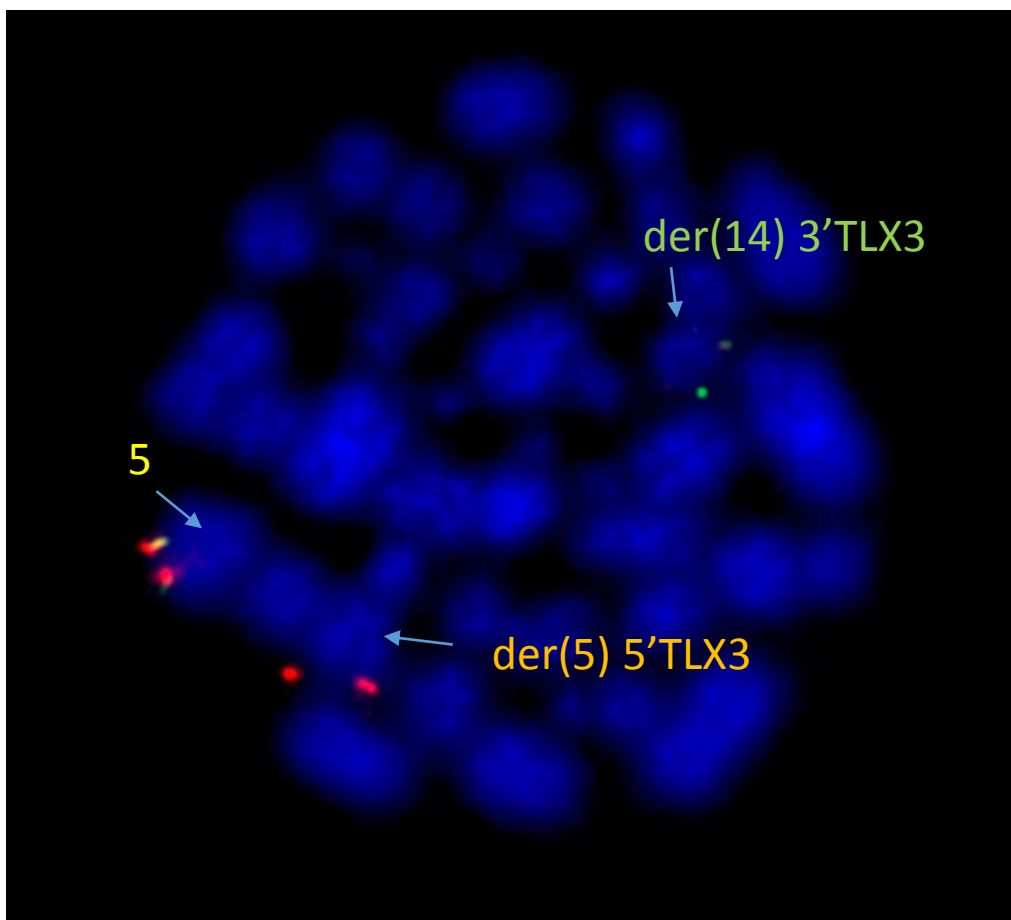
Absence de réarrangement PICALM-MLLT10.

Perte d'une copie du gène PICALM dans 20/20 mitoses et 90% des noyaux

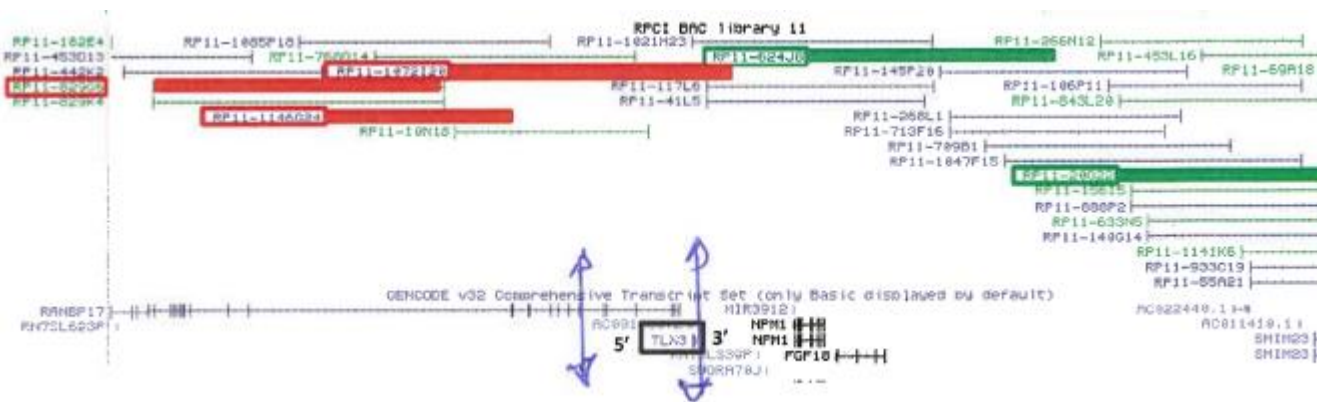


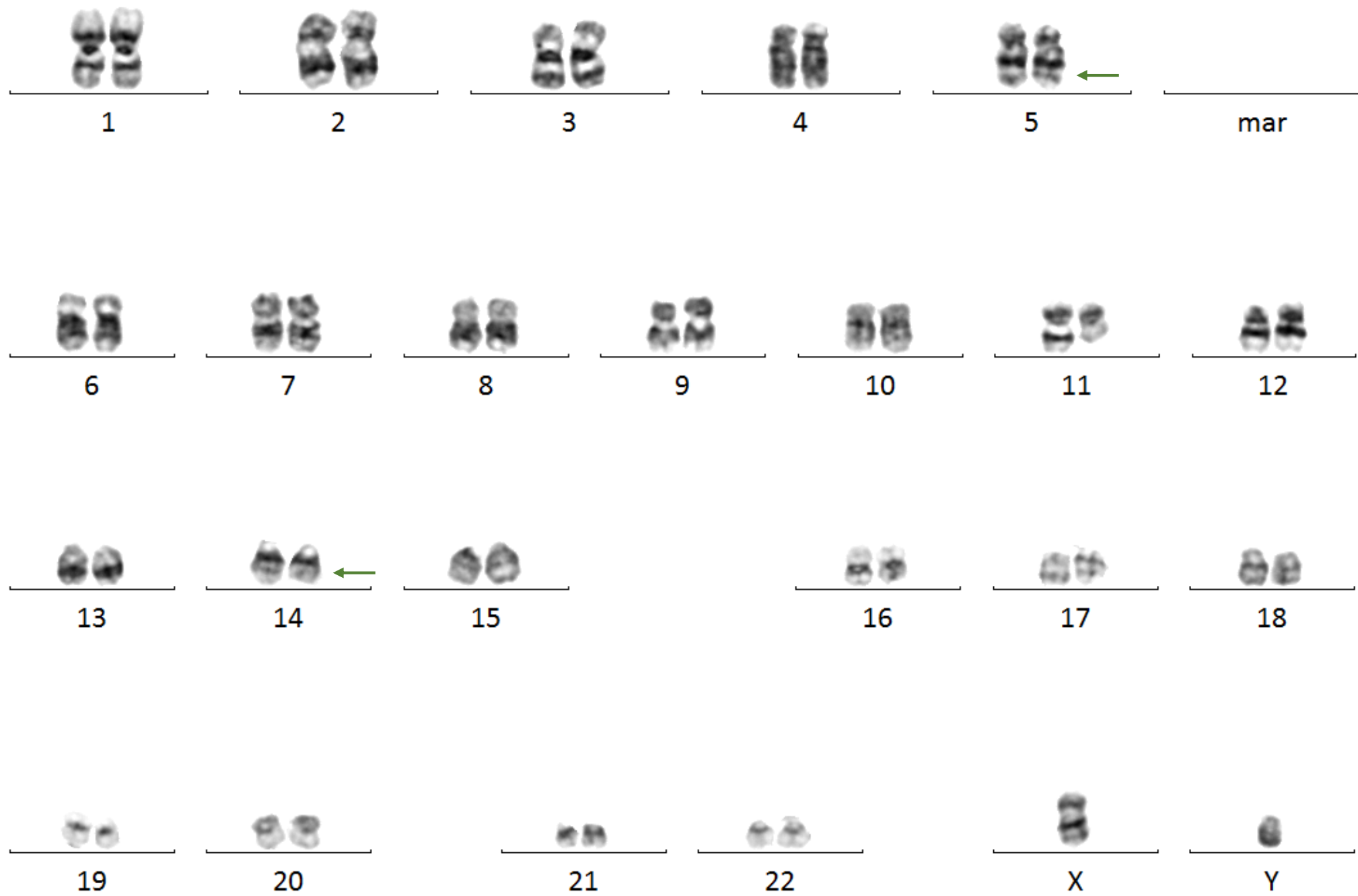
FISH BCR-ABL1, TLX1 et KMT2A normales

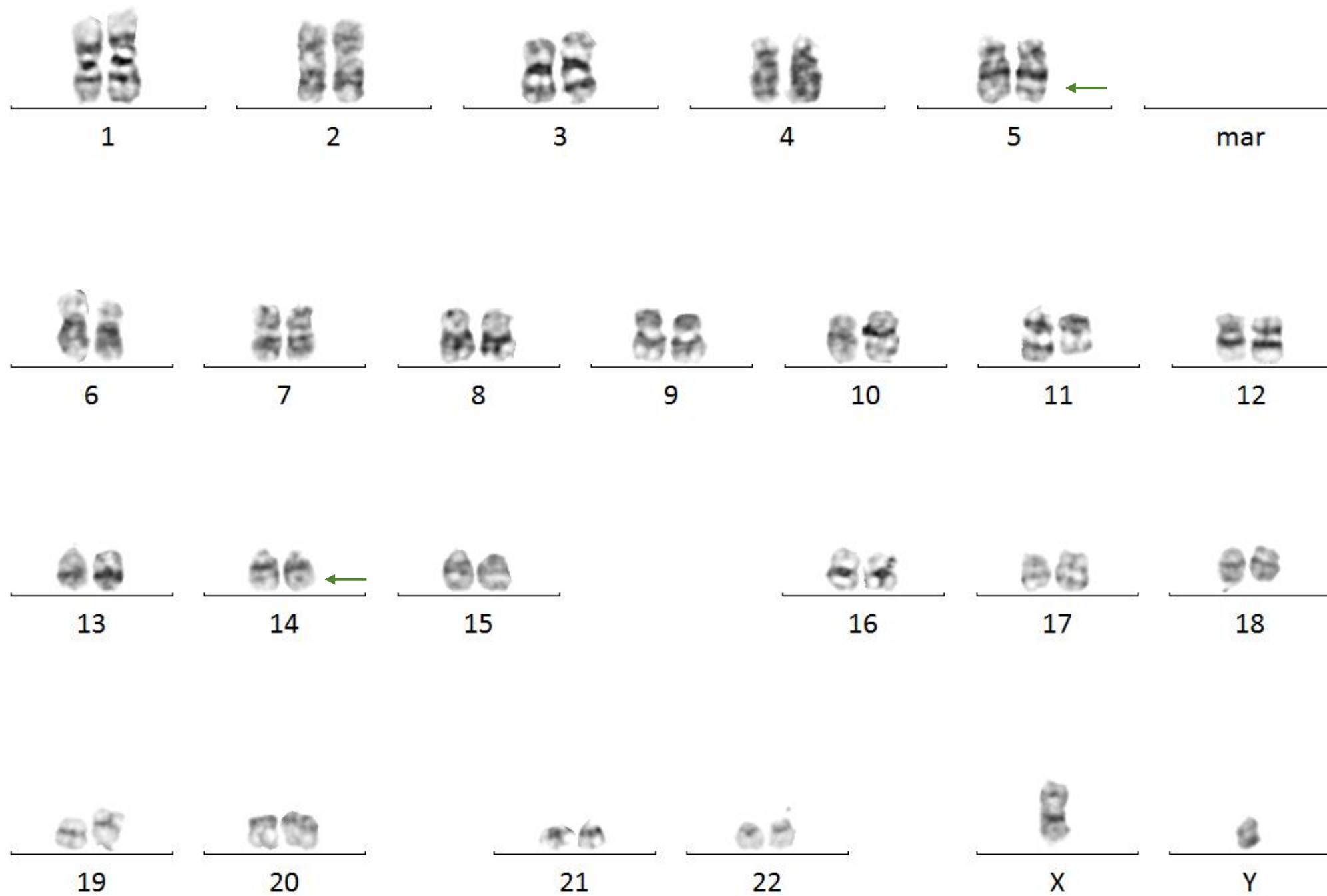
FISH TLX3 (5q35) double couleur maison

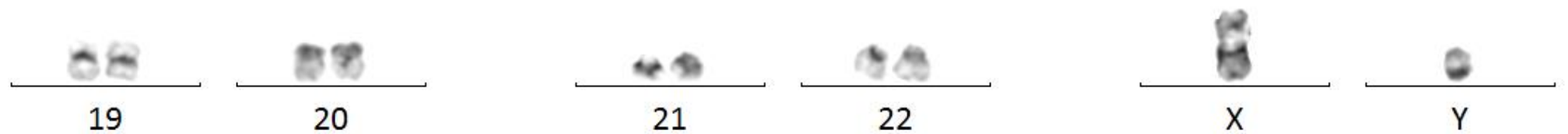
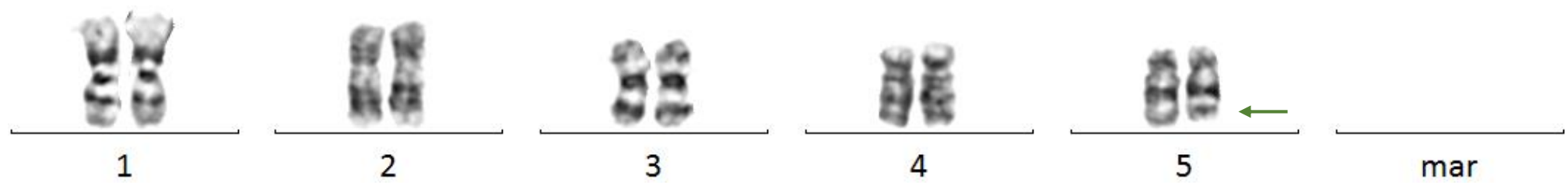


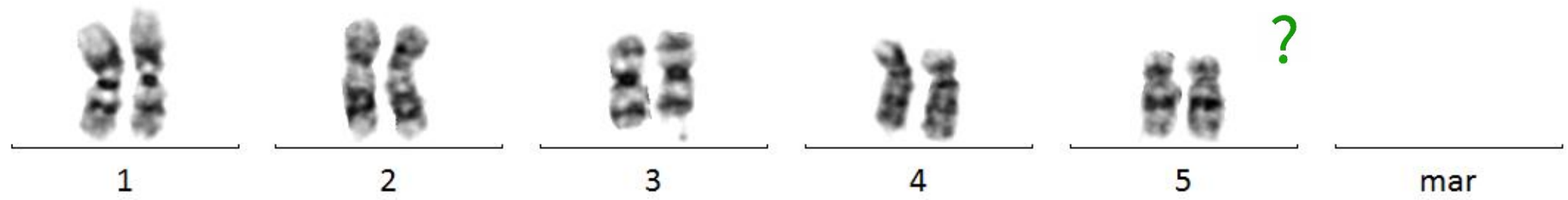
Centromère ← ————— → Télomère









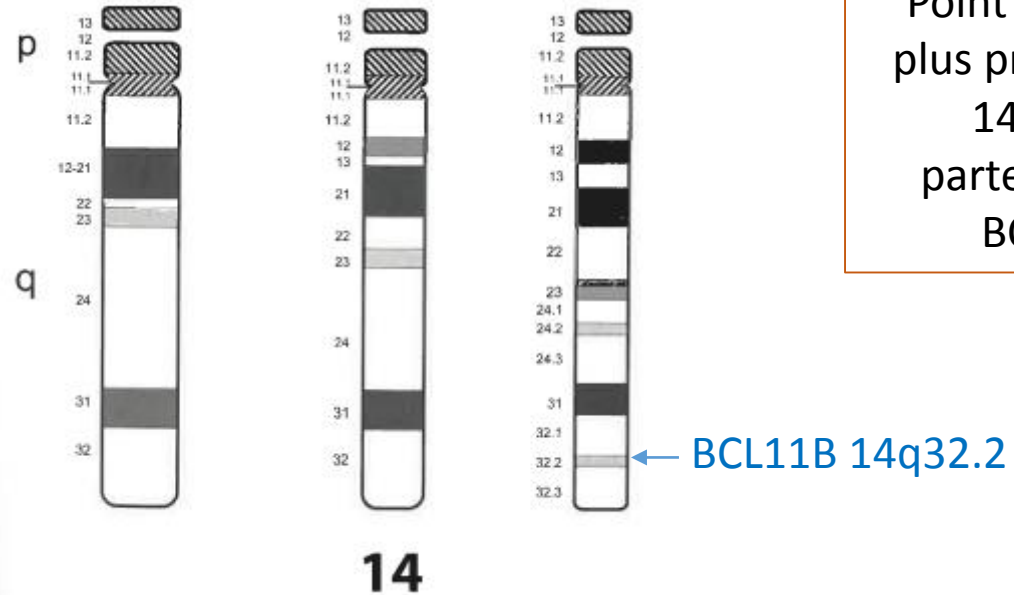
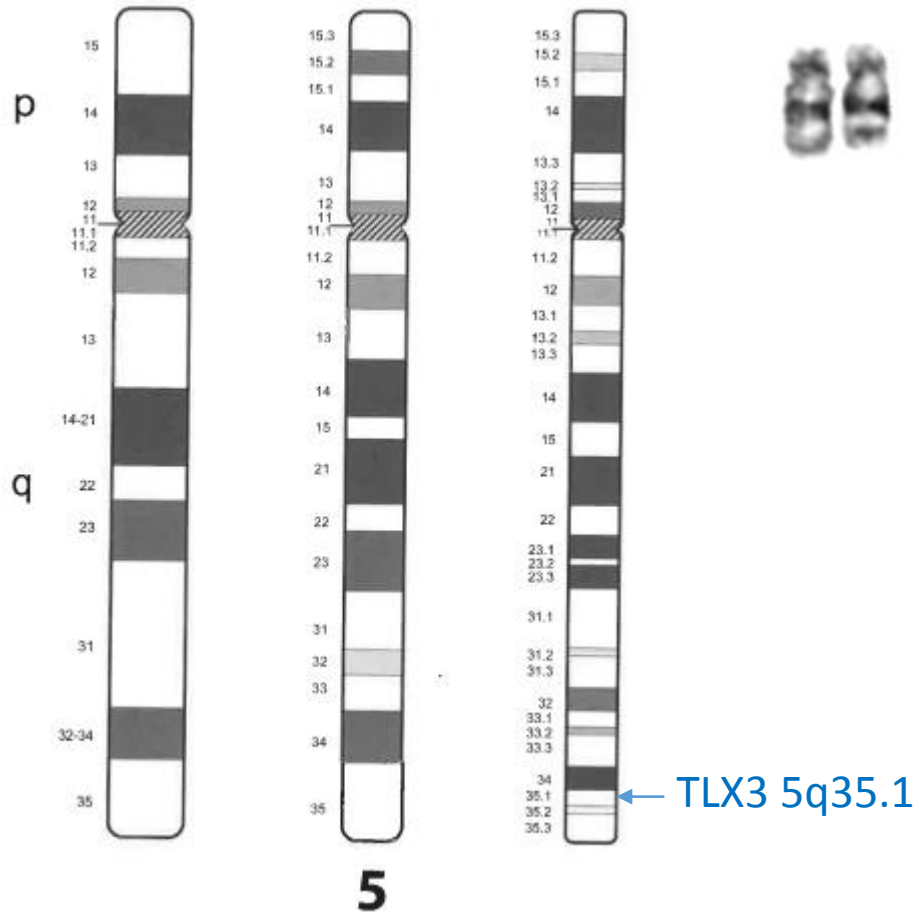


Retour sur les bandes RHG



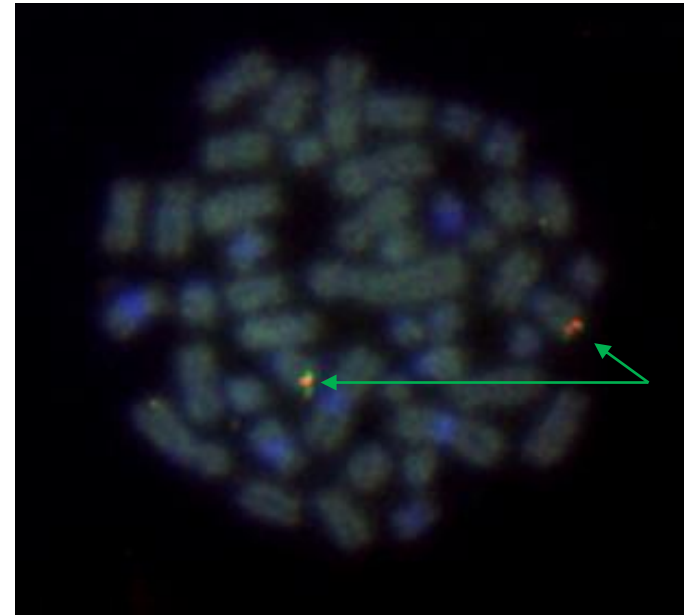
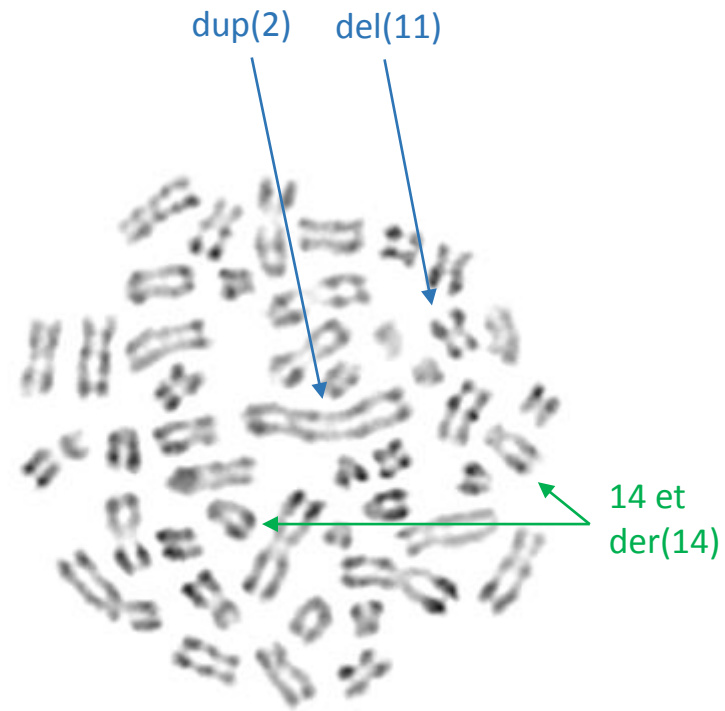
(5 et 14 des mitoses anormales)

t(5;14) TLX3/BCL11B : points de cassure



Point de cassure
plus proximal que
14q32.2 /
partenaire non
BCL11B?

FISH TCL1A (14q32.13) double couleur maison sur lame RHG



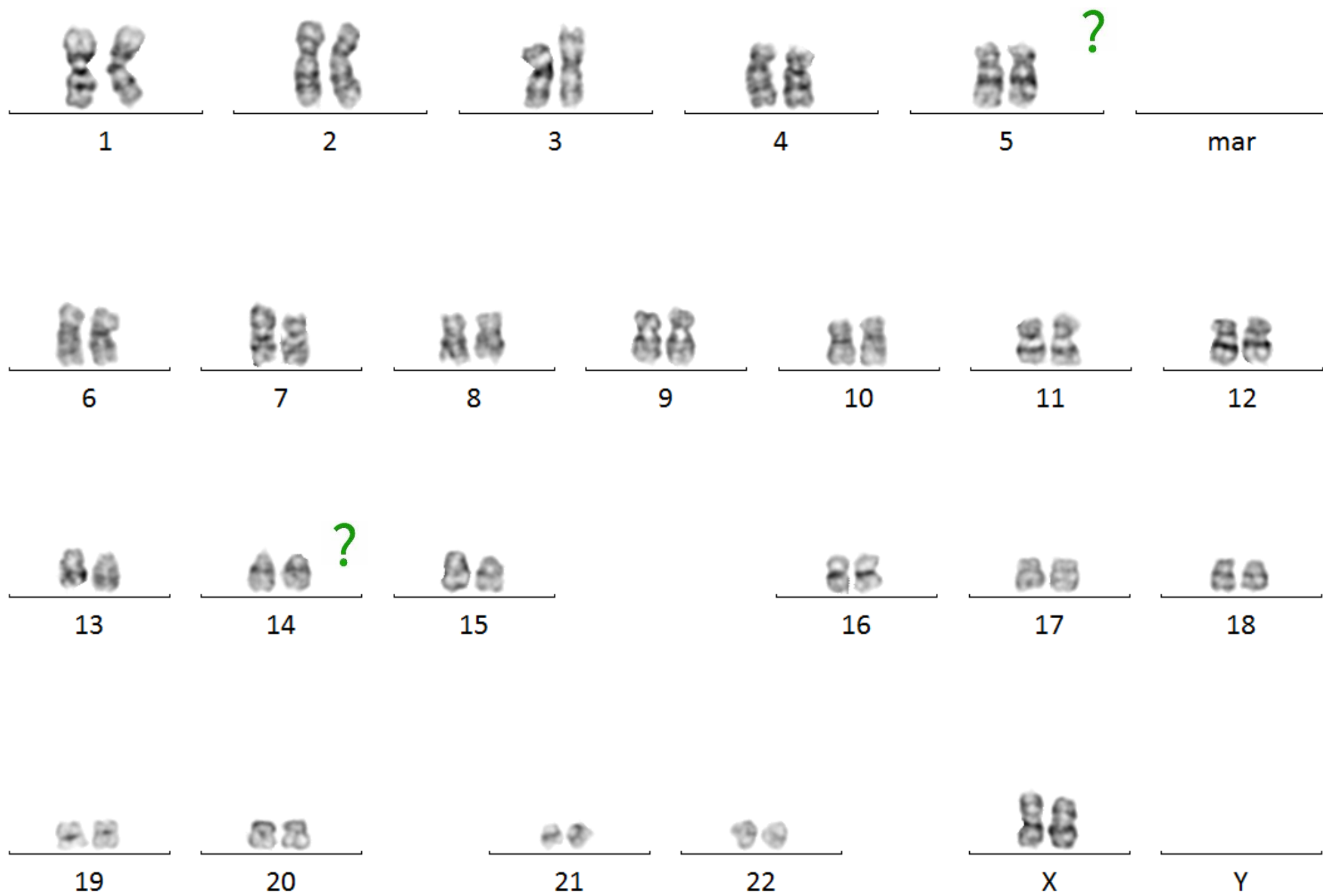
Point de cassure plus télomérique que TCL1A :
Compatible avec un réarrangement de BCL11B (14q32.2)

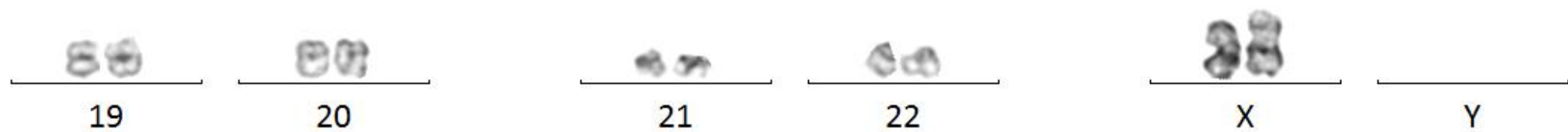
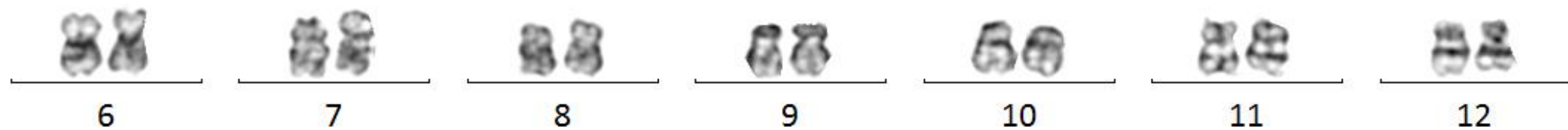
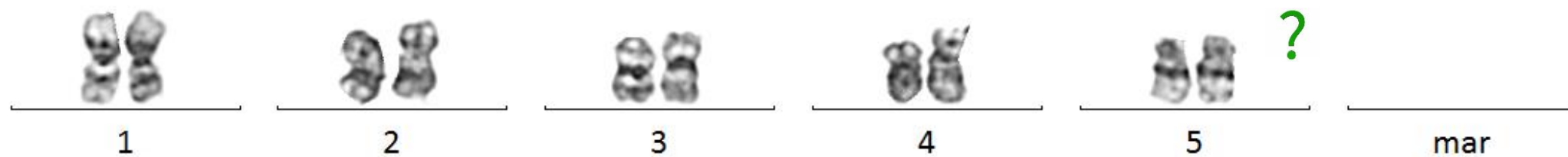
Patient 2

46,XX[20].ish t(5;14)(5'TLX3+;3'TLX3+)[18],9q34(ABLx2),22q11(BCRx2)[2], 10q24(TLX1x2)[2].nuc ish (TLX3x2)(5'TLX3 sep 3'TLX3x1) [179/200],(ABL,BCR)x2<200>,(TLX1x2)[200]



(5 et 14 de toutes les mitoses)





Patient 3

46,X,-Y,add(4)(q2?5),der(6)t(?4,6)(?q25;p21),+mar[13]/ 47,sl,+19[3]/46,XY[4].ish
t(5;14)(q35;q32)(5'TLX3-;3'TLX3+)[5],9q34(ABLx2), 22q11(BCRx2)[3],mar
(wcp8-)[9].nuc ish(ABL,BCR)x2[200]



(5 et 14 des mitoses anormales)

Au final...

- Cryptique ou non?
 - t(5;14) visible en bandes G, à la faveur d'une bonne résolution?
 - Ou... délétion 14q associée à la translocation t(5;14) chez le patient 1?
- Intérêt des bandes G pour la détection d'anomalies chromosomiques

Merci pour votre attention